

INFORMATION DISCLOSURE CITATION

IN AN APPLICATION
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JAN 28 2002

PATENT & TRADEMARK OFFICE

Docket Number (Optional)
HUV-050.01 (19787-5001)Application Number
09/955,738Applicant
Hafner et al.Filing Date
September 18, 2001Group Art Unit
1746

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PL	AA US 6,325,909 B1	12/04/01	Li et al.	205	106	
PL	AB US 6,283,812 B1	09/04/01	Jin et al.	445	24	
PL	AC US 6,250,984 B1	06/26/01	Jin et al.	445	51	
PL	AD US 6,221,330 B1	04/24/01	Moy et al.	423	447.3	
PL	AE US 6,221,154 B1	04/24/01	Lee et al.	117	87	
PL	AF US 6,210,800 B1	04/03/01	Nesper et al.	428	367	
PL	AG US 6,203,814 B1	03/20/01	Fisher et al.	424	443	
PL	AH US 6,159,742	12/12/00	Lieber et al.	436	164	
PL	AI US 6,146,227	11/14/00	Mancevski	445	24	
PL	AJ US 6,129,901	10/10/00	Moskovits et al.	423	447.3	
PL	AK US 6,099,965	08/08/00	Tennent et al.	428	408	
PL	AL US 6,063,243	05/16/00	Zettl et al.	204	164	
PL	AM US 5,997,832	12/07/99	Lieber et al.	423	249	
PL	AN US 5,824,470	10/20/98	Baldeschwieler et al.	435	6	
PL	AO US 5,753,088	05/19/98	Olk	204	173	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
PL	AP WO 00/66485	11/09/00	PCT				X
PL	AQ WO 00/73205 A1	12/07/00	PCT				X
PL	AR WO 00/09443	02/24/00	PCT				X
PL	AS WO 96/38705	12/05/96	PCT				X

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

PL	AT	Wong et al.; "Carbon Nanotube Tips: High-Resolution Probes For Imaging Biological Systems", J. Am. Chem. Soc., 120:603-604, (1998)

Form PTO-14-9

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PL	BJ	Nikolaev et al.; "Gas-phase Catalytic Growth of Single-Walled Carbon Nanotubes from Carbon Monoxide", Chemical Physics Letters 313: 91-97, (November 5, 1999)
PL	BK	Sinnott et al.; "Model of Carbon Nanotube Growth Through Chemical Vapor Deposition", Chemical Physics Letters 315: 25-30, (December 17, 1999)
PL	BL	Single-Walled Nanotubes Produced by Metal-Catalyzed Disproportionation of Carbon Monoxide", Chemical Physics Letters 260: 471-475, (September 27, 1996)
PL	BM	Hafner et al.; "Catalytic Growth of Single-Walled Carbon Nanotubes from Metal Particles", Chemical Physics Letters, 296 : 195-202, (October 30, 1998)
PL	BN	Anderson et al.; "Influence of the Support on the Structural Characteristics of Carbon Nanofibers Produced From the Metal-Catalyzed Decomposition of Ethylene", Chem. Mater 12: 823-830, (2000)
PL	BO	Cheung et al.; "Growth and Fabrication with Single-Walled Carbon Nanotube Probe Microscopy Tips", Applied Physics Letters, 76(21): 3136-3138, (May 22, 2000)
PL	BP	Kyotani et al.; "Formation of Ultrafine Carbon Tubes by Using an Anodic Aluminum Oxide Film as a Template", Chemistry of Materials 7(8): 1427-1428, (August 1995)
PL	BQ	Li and Liu; "Preparation of Monodispersed Fe-Mo Nanoparticles as the Catalyst for CVD Synthesis of Carbon Nanotubes", Chem. Mater. 13: 1008-1014, (2001)
PL	BR	Han et al.; "Synthesis of Silicon Nitride Nanorods Using Carbon Nanotube as a Template", Applied Physics Letters 71(16): 2271-2273, (October 20, 1997)
PL	BS	Ago et al.; "Dispersion of Metal Nanoparticles for Aligned Carbon Nanotube Arrays", Applied Physics Letters, 77(1): 79-81, (July 3, 2000)
PL	BT	Li et al.; "Highly-Ordered Carbon Nanotube Arrays for Electronic Applications", Applied Physics Letters, 75(3): 367-369, (July 19, 1999)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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INFORMATION DISCLOSURE CITATION

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
PL	BU	WO 98/05920	02/12/98	PCT			X
PL	BV	WO 00/09443	02/24/00	PCT			X

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

PL	BW (BA)	Cheung et al.; "Carbon Nanotube Atomic Force Microscopy Tips: Direct Growth by Chemical Vapor Deposition and Application to High Resolution Imaging" PNAS, 97(8): 3809-3813, (April 11, 2000)					
PL	BX (BD)	Cheung et al.; "Growth and Fabrication with Single-Walled Carbon Nanotube Probe Microscopy Tips", Applied Physics Letters, 76(21): 3136-3138, (May 22, 2000)					
PL	BY (BI)	Hafner et al.; "High-Yield Assembly of Individual Single-Walled Carbon Nanotube Tips for Scanning Probe Microscopies", The Journal of Physical Chemistry B, 105(4): 743-746, (February 1, 2001)					
PL	BZ	Hafner et al.; "Direct Growth of Single-Walled Carbon Nanotube Scanning Probe Microscopy Tips"					
PL	CA	Nakayama et al.; "Microprocess for Fabricating Carbon-Nanotube Probes of a Scanning Probe Microscope", J. Vac. Sci. Techn. B, 12(2):661-664, (Mar/April, 2000)					
PL	CB	Qin et al.; "Growing Carbon Nanotubes by Microwave Plasma-Enhanced Chemical Vapor Deposition", Applied Physics Letters 72(26): 3437-3439, (June 29, 1998)					
PL	CC	Stevens et al.; "Carbon Nanotubes as Probes for Atomic force Microscopy", Nanotechnology 11: 1-5, (2000)					
PL	CD	Database CA 'Online', Chemical Abstracts Service, Columbus OHIO, Database AccessionNo. 133: 181653 CA XP 002187925					
PL	CE	International Search Report Completed on January 22, 2002 and Mailed on February 06, 2002					

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PL	AU	US 4,663,230	05/05/87	Tennent	428	367
PL	AV	US 5,165,909	11/24/92	Tennent et al.	423	447.3

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

PL	AW	Wong et al.; "Covalently Functionalized Nanotubes as Nonometer-sized Probes in Chemistry and Biology", Nature, 394 : 524-527, (July 02, 1998)
PL	AX	Wang et al.; "Single-walled 4A Carbon Nanotube Arrays", Nature, 408: 50-51, (November 2000)
PL	AY	Wong et al.; "Covalently-Functionalized Single-Walled Carbon Nanotube Probe Tips for Chemical Force Microscopy", J. Am. Chem. Soc. 120: 8557-8558, (1998)
PL	AZ	Wang et al.; "Atomic Structure and Electronic Properties of Single-Walled Carbon Nanotubes", Nature 391: 62-64, (January 1, 1998)
PL	BA	Woolley et al.; "Direct Haplotyping of Kilobase-Size DNA Using Carbon Nanotube Probes", Nature Biotechnology, 18: 760-763, (July 2000)
PL	BB	Zhang et al.; "Heterostructures of Single-Walled Carbon Nanotubes and Carbide Nanorods", Science 285: 1719-1722, (September 10, 1999)
PL	BC	Journet et al.; "Large-scale Production of Single-Walled Carbon Nanotube by the Electric-arc Technique", Nature, 388: 756-758, (August 21, 1997)
PL	BD	Dai et al.; "Nanotubes as Nanoprobes in Scanning Probe Microscopy", Nature 384: 147-150, (November 14, 1996)
PL	BE	Cheung et al.; "Carbon Nanotube Atomic Force Microscopy Tips: Direct Growth by Chemical Vapor Deposition and Application to High-Resolution Imaging", PNAS, 97(8): 3809-3813, (April 11, 2000)
PL	BF	Kelly et al.; "Threefold Electron Scattering on Graphite Observed With C ₆₀ - Adsorbed STM Tips", Science, 273 : 1371-1373, (September 6, 1996)
PL	BG	Fan et al.; "Self-Oriented Regular Arrays of Carbon Nanotubes and their Field Emission Properties", Science, 283: 512-514, (January 22, 1999)
PL	BH	Thess et al.; "Crystalline Ropes of Metallic Carbon Nanotubes", Science 273: 483-487, (July 26, 1996)
PL	BI	Hafner et al.; "High-Yield Assembly of Individual Single-Walled Carbon Nanotube Tips for Scanning Probe Microscopies", The Journal of Physical Chemistry B, 105(4): 743-746, (February 1, 2001)